Claims;

What is claimed;

1. A method for inhibiting microbial growth of a broad spectrum of microorganisms

which comprises contacting a substrate subject to attack by microorganisms selected

from the group consisting of bacteria, fungi, yeasts and mold with an antimicrobially

effective amount of an antimicrobial composition conforming to the following structure:

(a)

$$
\begin{array}{cc}
& \overset{\displaystyle O}{/\;\;\;\backslash} \\
RO\text{-}(H)C & C(H)\text{-}CH_2\text{-}OR^4 \\
| & | \\
R^3O\text{-}(H)C & C(H)\text{-}OR^1 \\
\backslash & / \\
& C \\
& /\;\;\;\backslash \\
& OR^2 \quad H
\end{array}
$$
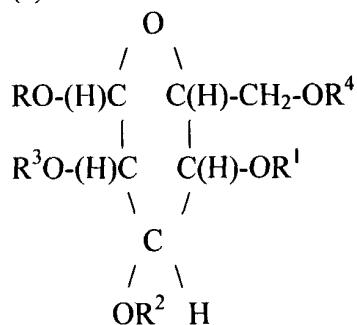
wherein;

R is alkyl having 8 to 22 carbon atoms;

R^1, R^2, R^3 and R^4 are independently selected from the group consisting of
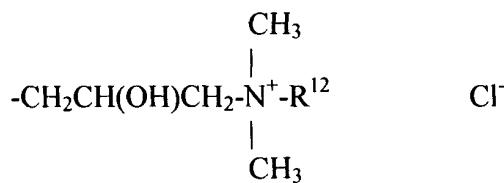
$$
\begin{array}{c}
CH_3 \\
| \\
\text{-}CH_2CH(OH)CH_2\text{-}N^+\text{-}R^{12} \qquad Cl^- \\
| \\
CH_3
\end{array}
$$

and H, with the proviso that R^1, R^2, R^3. and R^4 are not all H;

R^{12} is $CH_3(CH_2)_n$-

n is an integer ranging from 0 to 21;

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and

(b)

$$
\begin{array}{c}
O \\
/ \quad \backslash \\
RO\text{-}(H)C \quad C(H)\text{-}CH_2\text{-}OR^6 \\
| \qquad | \\
R^7O\text{-}(H)C \quad C(H)\text{-}OR^5 \\
\backslash \quad / \\
C \\
/ \quad \backslash \\
H \quad O \\
| \\
O \; CH_2 \\
/ \; \backslash | \\
R^8O\text{-}(H)C \quad C\text{-}H \\
| \qquad | \\
R^9O\text{-}(H)C \quad C(H)\text{-}OR^{11} \\
\backslash \quad / \\
C \\
/ \quad \backslash \\
OR^{10} \quad H
\end{array}
$$
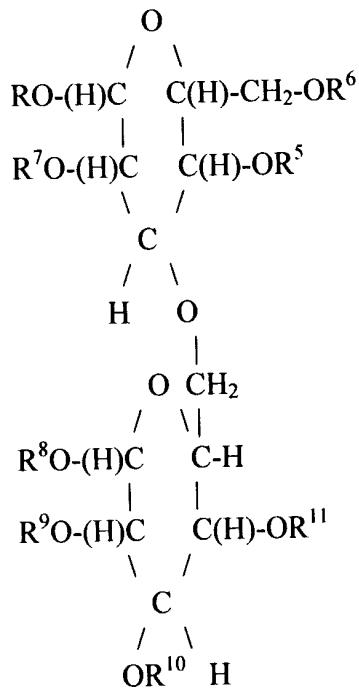
wherein;

R is alkyl having 8 to 22 carbon atoms;

R^1, R^2, R^3 and R^4, R^5, R^6, R^7 R^8, R^9, R^{10}, and R^{11} are independently selected from the
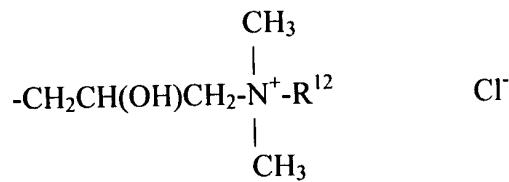
group consisting of

$$
\begin{array}{c}
CH_3 \\
| \\
\text{-}CH_2CH(OH)CH_2\text{-}N^+\text{-}R^{12} \qquad Cl^- \\
| \\
CH_3
\end{array}
$$

and H, with the proviso that R^1, R^2, R^3. and R^4 are not all H;

R^{12} is $CH_3(CH_2)_n$-

n is an integer ranging from 0 to 21.

2. A method of claim 1 wherein n is 0.

3. A method of claim 1 wherein n is 11.

4. A method of claim 1 wherein n is 13.

5. A method of claim 1 wherein n is 17.

6. A method of claim 1 wherein n is 19.

7. A method of claim 1 wherein n is 21.